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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/701,303	11/28/2000	Akihiko Sano	0020-4771P	8796

2292 7590 01/29/2002

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EXAMINER

JOYNES, ROBERT M

ART UNIT

PAPER NUMBER

1615

DATE MAILED: 01/29/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/701,303	SANO ET AL.
Examiner	Art Unit	
Robert M. Joynes	1615	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) Responsive to communication(s) filed on 13 November 2001.

2a) This action is FINAL.                            2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) Claim(s) 1-8 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-8 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____.
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.	6) <input type="checkbox"/> Other: _____

## DETAILED ACTION

Receipt is acknowledged of applicants' Amendment filed on November 13, 2001.

This Office Action is deemed non-final due to the following new grounds for rejection.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sano et al. (EP 0659406, hereafter "Sano") in view of Chen et al. (US 5558879, hereafter "Chen"). Sano teaches a rod-like drug formulation comprising a non-disintegrating inner layer comprised of a biocompatible material that contains a uniformly dispersed water-soluble drug and outer layer comprised of biocompatible material wherein the outer layer surrounds the circumference of the inner layer (Page 3, line 56 – Page 4, line 5). The outer layer may be composed of silicones, polytetrafluoroethylenes, polyethylenes, polypropylenes, polyurethanes, polyacrylates or polymethacrylates (Page 5, lines 15-20). The inner layer may be the same as that of the outer layer or a biodegradable polymer (Page 5, lines 25-31). Preferably both layers are comprised of a silicone (Page 5, lines 18-20, 38-39). The inner layer may contain two or more layers containing different water-soluble drugs that may take the form of concentric circles with a single center of gravity (Page 6, lines 33-39). The preparation taught by Sano may in the shape of a circular cylinder, prism or elliptical cylinder (Page 6, lines 29-32).

Additionally, the rod or cylinder is prepared such that the ends of the preparation are open to the surrounding environment (Page 7, lines 11-12).

Sano does not expressly teach that a non-degradable hydrophobic polymer material exists between the inner layer and the outer layer or between the multiple inner layers in which a water-soluble drug is dispersed. Sano further does not expressly teach that the outer coating contains an active agent.

Chen teaches a sustained release formulation that comprises an outer coating that contains an active agent (Col. 7 and 8, Claims 1, 5, 9 and 10). The purpose of the active agent in the outer coating is for immediate release of the active agent (Col. 7 and 8, Claims 1, 5, 9 and 10). Chen is used to teach that active agents are placed in outer layers or coating to effectuate immediate of an active agent.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to prepare a multiple layer pharmaceutical composition in the form of a rod or cylinder in which two or more layers contain a water-soluble drug wherein one or more alternating layers contain no drug or a slight amount of a drug, wherein an end or face of the preparation is exposed to the surrounding environment.

One of ordinary skill in the art would have been motivated to do this to prepare a pharmaceutical composition that releases one or more drugs in a sustained release and an immediate release fashion.

Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

***Correspondence***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Joynes whose telephone number is (703) 308-8869. The examiner can normally be reached on Monday through Friday 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on (703) 308-2927. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3592 for regular communications and (703) 305-3592 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

Robert M. Joynes  
Patent Examiner  
Art Unit 1615  
January 25, 2002

THURMAN K. PAGE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1600